

ABSTRACT

Sub B1

Disclosed is an optical glass having high-
5 refractivity and low-dispersion optical properties and having
a low glass transition point so that a heat-treating furnace
can be operated for a long period of time.

The present invention provides an optical glass
having a refractive index n_d of at least 1.875, an Abbe's
10 number v_d of at least 39.5 and a glass transition point T_g of
700°C or lower, an optical glass which is a borosilicate
glass comprising at least one selected from La_2O_3 , Gd_2O_3 , Y_2O_3
or Yb_2O_3 and at least one selected from ZrO_2 , Ta_2O_5 or Nb_2O_5 ,
wherein the ratio (weight ratio) of the total content of
15 La_2O_3 , Gd_2O_3 , Y_2O_3 and Yb_2O_3 to the total content of SiO_2 and
 B_2O_3 is from 3.2 to 5 and the ratio (weight ratio) of the
total content of ZrO_2 , Ta_2O_5 and Nb_2O_5 to the total content of
 SiO_2 and B_2O_3 is from 1.1 to 1.5, and which has a refractive
index n_d of at least 1.875 and an Abbe's number v_d of at
20 least 39.5, and the like.